Social Determinants of Health

Addressing the Social Determinants of Health: The Role of Public Health

Training Objectives

- 1. Increase knowledge of the Social Determinants of Health (SDoH) framework
- 2. Introduce SDoH data and it's possible uses

Social Determinants of Health

According to the World Health Organization the public health system has 3 obligations in confronting inequity

- 1. To take the lead in encouraging a wider and more strategic approach to developing healthy public policies to promote health equity and social justice
- 2. To ensure resources are distributed between areas in proportion to their relative needs
- 3. To respond appropriately to the health care needs of different social groups

Source: WHO - World Health Organization

Social Determinants of Health Definition

"Social determinants of health are life-enhancing resources, such as food supply, housing, economic and social relationships, transportation, education and health care, whose distribution across populations effectively determines length and quality of life."

S. A. James in *Promoting Health Equity: A Resource to Help Communities Address Social Determinants of Health, CDC, 2008*

How Does it Differ From Health Disparities?

Health Disparities - Difference in incidence and prevalence of health conditions and health status between groups

- Disparity is only a descriptive statistical term
- It defines the difference among groups and populations
- Provides no explanation for the root cause of this difference
- Provides no insight into potential intervention
 From presentation by Jeff Goldhagen, MD, at University of Florida

... "Despite increased attention to health disparities at the national, state, and community levels, relatively little progress has been made in achieving the vision of the Healthy People 2010 initiative of eliminating racial and ethnic health disparities by 2010."

From Racial and Ethnic Health Disparities in Colorado 2009, CDPHE

Health Equity Definition

When everyone has the opportunity to 'attain their full health potential' and no one is 'disadvantaged from achieving this potential because of their social position or other socially determined circumstance.'

Source: WHO – World Health Organization

Social Determinants of Health

The Framework

Health Begins where You Live, Learn, Work and Play

NATIONAL INFLUENCES
GOVERNMENT POLICIES
U.S. CULTURE & CULTURAL NORMS

LIFE COURSE

SOCIAL DETERMINANTS OF HEALTH

HEALTH FACTORS POPULATION OUTCOMES

PREGNANCY

EARLY CHILDHOOD

CHILDHOOD

ADOLESCENCE

ADULTHOOD

OLDER ADULTS

| ECONOMIC OPPORTUNITY | PHYSICAL ENVIRONMENT | SOCIAL FACTORS |
|--|--|--|
| Incom e Emplo yment Educa tion Housi ng | Built Environment Recreation Food Transportation Environmental quality Housing Water Air Safety | Parti cipati on Soci al supp ort Lead ershi p Politi cal influ ence Orga nizati onal netwo |
| | | Viole |

| HEALTH BEHAVIORS & CONDITIONS | MENTAL HEALTH | ACCESS , UTILIZATION & QUALITY CARE |
|--|---|--|
| Nutriti on Physi cal activit y Tobac co use Skin Canc er Injury Oral health Sexu al health | Menta I health status Stres s Subst ance abuse Functi onal status | Healt h insura nce cover age Recei ved neede d care Provi der availa bility Preve ntive care |

MORBIDITY

MORTALITY

QUALITY OF LIFE

LIFE EXPECTANCY

Public Health's Role in Addressing the Social Determinants of Obesi

- Advocating for and defining public policy to achieve sm health equity
- Coordinated interagency efforts
- Creating organizational environments that enable change

- ••CData collection, monitoring and surveillance
- •stprobulation based interventions to address health
- High
 Hactors
 Blood
- Resimmunity engagement and capacity building

uı

Health Begins Where You Live, Learn, Work and Play

NATIONAL INFLUENCES
GOVERNMENT POLICIES
U.S. CULTURE & CULTURAL RMS

LIFE COURSE

SOCIAL DETERMINANTS OF HEALTH

HEALTH FACTORS POPUL TION OUTCO. 'S

PREGNANCY

EARLY CHILDHOOD

CHILDHOOD

ADOLESCENCE

ADULTHOOD

OLDER ADULTS

| Incom e Emplo yment Educa tion Housi ng Environment Environment Recrea tion Food Transp ortation ortation Parti cipa Soc al Transp ortation ort Lead ershi q Water Air Safety Safety Inguilar Inguilar Inguilar Inguilar Inguilar Inguilar Inguilar Incom Inguilar Inguil | ECONOMIC | PHYSICAL | SOCIAL |
|--|--|--|---|
| | OPPORTUNITY | ENVIRONMENT | FACTORS |
| netwo | e Emplo yment Educa tion Housi | Environment Recreation Food Transportation Environmental quality Housing Water Air | cipa on Soc al sup ort Lead ershi p Politi cal influ ence Orga nizati |

| HEALTH BEHAVIORS & CONDITIONS | MENTAL HEALTH | ACCESS , UTILIZATION & QUALITY CARE |
|--|---|--|
| Nutriti on Physi cal activit y Tobac co use Skin Canc er Injury Oral health Sexu al health | Menta I health status Stres s Subst ance abuse Functi onal status | Healt h insura nce cover age Recei ved neede d care Provi der availa bility Preve ntive care |

MORBIDITY

MORTALITY

QUALITY OF LIP

LIFE EXPECTANCY

Public Health's Role in Addressing the Social Determinants of

- Advocating for and defining public policy to achieve sm health equity
- Coordinated interagency efforts
- Creating organizational environments that enable change

- ●●ĆDatea ction, monitoring and surveir ce
- •stpropulation by audress health
- Hactors
- •P@gmmunity engagement and capacity building

Health Begins Where You Live, Learn, Work and Play

NATIONAL INFLUENCES
GOVERNMENT POLICIES
U.S. CULTURE & CULTURAL NORMS

IFE COURSE

SOCIAL DETERMINANTS OF HEALTH

HEALTH FACTORS POPULATION OUTCOMES

PREGNANCY

EARLY CHILDHOOD

CHILDHOOD

ADOLESCENCE

ADULTHOOD

OLDER ADULTS

| ECONOMIC OPPORTUNITY | PHYSICAL ENVIRONMENT | SOCIAL FACTORS |
|--|--|---|
| Incom e Emplo yment Educa tion Housi ng | Built Environment Recreation Food Transportation Environmental quality Housing Water Air Safety | Parti cipati on Soci al supp ort Lead ershi p Politi cal influ ence Orga nizati onal netwo Iks |
| | | Viole |

| HEALTH BEHAVIORS & CONDITIONS | MENTAL HEALTH | ACCESS , UTILIZATION & QUALITY CARE |
|--|---|--|
| Nutriti on Physi cal activit y Tobac co use Skin Canc er Injury Oral health Sexu al health | Menta I health status Stres s Subst ance abuse Functi onal status | Healt h insura nce cover age Recei ved neede d care Provi der availa bility Preve ntive care |

MORBIDITY

MORTALITY

QUALITY OF LIFE

LIFE EXPECTANCY

Public Health's Role in Addressing the Social Determinants of Obesi

- Advocating for and defining public policy to achieve sm health equity
- Coordinated interagency efforts
- Creating organizational environments that enable change

- ••CData collection, monitoring and surveillance
- •stprobulation based interventions to address health
- High Hactors
- •P@gmmunity engagement and capacity building

u

Social Determinants of Health

Compared to other industrialized countries, where does the U.S. rank in smoking prevalence?

- 1. #1 (highest smoking rates)
- 2. Top 5
- 3. Top 10
- 4. 11-20th place
- 5. Below 25th Place (lowest smoking rates)

Source: www.unnaturalcauses.org

Social Determinants of Health

E. Below 25th Place

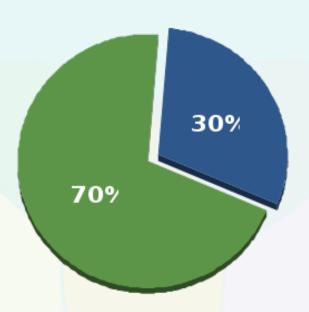
- Japan has the longest life expectancy AND the highest smoking prevalence.
- The French smoke more and live longer.
- The Germans drink more and live longer.

The U.S. has by far the greatest inequality, the fewest social protections, and the most poverty.

Source: www.unnaturalcauses.org

Social Determinants of Health

Health in Context



Access to Health Care and GenelliEsonomic, Community, Social Fact

Adapted from BARHII model (Bay Area Regional Health Inequities Initiative)

Health Begins Where You Live, Learn, Work and Play

NATIONAL INFLUENCES
GOVERNMENT POLICIES
J.S. VILTURE & CULTURAL NORMS

LIFE COURSE SOCIAL DETERMINANTS OF HEALTH

HEALTH FACTORS POPULATION OUTCOMES

PREGNANCY

EARLY
CHILDHOOD

CHILDHOOD

ADOLESCENCE

ADULTHOOD

OLDER ADULTS

| Incom e Emplo yment Educa tion Housi ng Environment Food Transp ortation Housin g Housin g Water Air Parti cipati on Soci al supp ort Lead ershi p Politi cal influent Air | ECONOMIC | PHYSICAL | SOCIAL |
|--|--------------------------------------|--|--|
| | OPPORTUNITY | ENVIRONMENT | FACTORS |
| | e • Emplo yment • Educa tion • Housi | Environment Recreation Food Transportation Environmental quality Housing Water Air | cipati on Soci al supp ort Lead ershi p Politi cal influ enc 2ati onal |

| HEALTH BEHAVIORS & CONDITIONS | MENTAL HEALTH | ACCESS , UTILIZATION & QUALITY CARE | |
|--|--|---|--|
| Nutriti on Physi cal activit y Tobac co use Skin Canc er Injury Oral health Sexu al health | Menta health status Stres Subst ance abuse Functi onal status | Healt h insura nce cover age Recei ved neede d care Provi der availa bility Preve ntive care | |

QUALITY OF LIFE

MORBIDITY

MORTALITY

LIFE EXPECTANCY

Public Health's Role in Accessing the Social Determinants of Obesi

- Advocating for and defining public policy to achieve sm health equity
- Coordinated interagency efforts
- Creating organizational environments that enable change

- ••CData collection, monitoring and surveillance
- •stprobulation based interventions to address health
- High
 Hactors
 Blood
- •P@gmmunity engagement and capacity building

Health Begins Where You Live, Learn, Work and Play

NATIONAL INFLUENCES
GOVERNMENT POLICIES
U.S. CULTURE & CULTURAL NORMS

LIFE COURSE

SOCIAL DETERMINANTS OF HEALTH

HEALTH FACTORS POPULATION OUTCOMES

PREGNANCY

EARLY CHILDHOOD

CHILDHOOD

ADOLESCENCE

ADULTHOOD

OLDER ADULTS

| ECONOMIC OPPORTUNITY | PHYSICAL ENVIRONMENT | SOCIAL FACTORS |
|--|--|--|
| Incom e Emplo yment Educa tion Housi ng | Built Environment Recreation Food Transportation Environmental quality Housing Water Air Safety | Parti cipati on Soci al supp ort Lead ershi p Politi cal influ ence Orga nizati onal netwo |
| | | Viole |

| HEALTH BEHAVIORS & CONDITIONS | MENTAL HEALTH | ACCESS, UTILIZATION & QUALITY CARE |
|--|---|---|
| Nutriti on Physi cal activit y Tobac co use Skin Canc er Injury Oral health Sexu al health | Menta I health status Stres s Subst ance abuse Functi onal status | Healt h insura nce cover age Recei ved neede d care Provi der availa bility Preve ntive care |

MORBIDITY

MORTALITY

LIFE EXPECTANCY

Public Health's Role in Addressing the Social Determinants of Obesi

- Advocating for and defining public policy to achieve sm health equity
- Coordinated interagency efforts
- Creating organizational environments that enable change

- ••CData collection, monitoring and surveillance
- •stprobulation based interventions to address health
- High
 Hactors
 Blood
- •P@gmmunity engagement and capacity building

u

Life Course Perspective

"Obstacles children encounter early in life can set off a negative chain of events so hard to break that they can transcend generations. Poor education leads to limited job options, which leads to lower income, living in poor neighborhoods with poor housing, higher crime, more violence, limited access to nutritious foods, safe places to exercise or medical care – all of which leads to poorer physical and mental health."

Risa Lavizzo-Mourey, MD, MBA, President and CEO, Robert Wood Johnson Foundation

Social Determinants of Health

Case Study

Individual Factors Case Study

The Kaleidoscope Project

SOCIAL DETERMINANTS OF HEALTH

INDIVIDUAL FACTORS

POPULATION HEALTH OUTCOMES

LIFE COURSE

Adulthood

Social Factors

Participation

Social Networks/Social

Support

Health/Behavioral

Smoking

Quality of Life

Morbidity

Mortality

Life

Expectancy

Social Determinants of Health

Part II - The Data



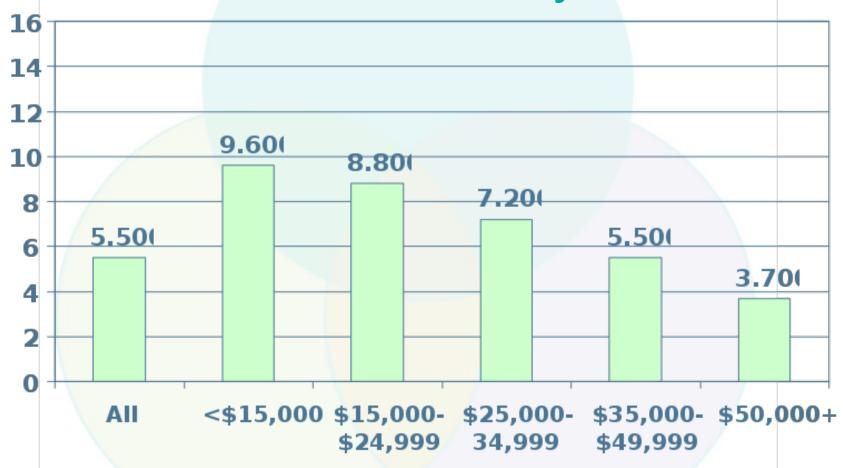


Purpose

Introduce the Social Determinants of Health (SDoH) data profile and identify how this information can inform programs.

Economic Context

Cardiovascular Disease Prevalence by Income



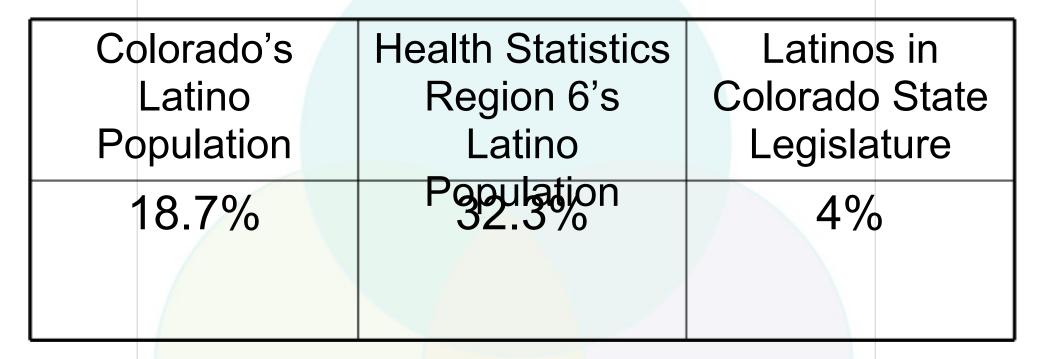
Source: Colorado Adults BRFSS (Behavioral Risk Factor Surveillance System), 2007

Community Context

| I | Education | Colorado | Dougla s | Denve |
|----|---|----------|-------------|-------|
| CS | Grade Scoring SAP Reading - Proficient or Above | 71% | 81% | 50% |

Source: Colorado Children's Campaign, 2007

Social Context



Colorado Health Statistics Region 6 consists of eight counties in southeast Colorado: Baca, Bent, Crowley, Huerfano, Kiowa, Las Animas, Otero and Prowers.

Sources: U\$ Census 2007 estimates and La Voz Nueva, http://www.lavozcolorado.com/news.php?nid=3940, 2009

New: SDoH Data Profiles

- Socioeconomic environment shapes our resources, opportunities, and exposures
- However, the degree to which these pathways plays a role in health outcomes is not well understood

There is no single pathway to health

Lantz PM, Pritchard A. Socioeconomic indicators that matter for population health. Prev Chronic Dis 2010;7(4). http://www.cdc.gov/pcd/issues/2010/jul/09_0246.htm.

New: SDoH Data Profiles

Building the evidence

- Known: SDoH inequities
 - Poor health is associated with social & economic disadvantage
- Growing evidence: population health gains depend on improvements in many of the fundamental SDoH
 - meaningful employment, income security, educational opportunities, and active communities
- Unknown: Causal pathways
 - Definition The relating of causes to the effects they produce (i.e. cause is the exposure and effect is disease or death)
 - Example New Mexico SDoH

Kelly M.P., Morgan A., Bonnefoy J., Butt J., Bergman V. The social determinants of health: Developing an evidence base for political action. WHO Commission on the Social Determinants of Health. October 2007.

Social Determinants of Health

Part III- Applying the Knowledge

Life Course Case Study

LiveWell Colorado

+

SOCIAL DETERMINANTS OF HEALTH

INDIVIDUAL FACTORS

POPULATION HEALTH OUTCOMES

LIFE COURSE

Pregnant moms

Young Children

Access to Healthy Foods

Vouchers Good at Farmer's Markets to Mothers on WIC

Obesity Diabetes

Quality of Life

Morbidity

Mortality

Life

Expectancy

Social Determinants of Health

What changes can you incorporate into programs based on the SDoH framework?

Social Determinants of Health

This is Prevention

"Interventions outside the health sector are likely to have a relatively greater impact on the **occurrence** of illness in the first place, whereas health care policies - especially those directed at early detection and stopping progression of illness - are likely to have strong impacts in reducing disparities in the **severity** of illness."

Alameda County Public Health Department

Social Determinants of Health

The End

Social Determinants of Health Workgroup Members

Special thanks to the workgroup members for contributing their expertise:

Anne-Marie Braga

John Romero Campbell

Karen DeLeeuw

José Esquibel

Natalie Gregory

Indira Gujral

Stephen Holloway

Kyle Legleiter

Agnieszka McCort

Susan Motika

Jessica Osborne

Barbara Quintana

Cara Snyder

Ralph Wilmoth

Lorena Zimmer

Social Determinants of Health

Access to Colorado Specific Data on the Web

http://www.cdphe.state.co.us/hs/datahome.html

Social Determinants of Health

According to the World Health Organization the public health system has 3 obligations in confronting inequity

- 1. To take the lead in encouraging a wider and more strategic approach to developing healthy public policies to promote health equity and social justice
- 2. To ensure resources are distributed between areas in proportion to their relative needs
- 3. To respond appropriately to the health care needs of different social groups

Source: WHO - World Health Organization

Social Determinants of Health

Excerpts from the CO Public Health Improvement Plan

- Assessment and Planning
- Ensure a comprehensive set of public health indicators, to include health status, behavioral risk, mental health, environmental health, oral health, health disparities, and social determinants of health
- Health status and environmental indicators analyzed by income, age, race/ethnicity, and other socio/geo/demographic characteristics, where possible, to identify priority populations